#7
(Ext. 3mos.)
2/22/01

RAM Fee History Query

Revenue Accounting and Management

Name/Number: 09331759
Start Date: Any Date

Total Records Found: 11
End Date: Any Date

Accounting Date	Sequence Num.	Tran Type	Fee Code	Fee Amount	Mailroom Date	Payment Method
06/29/1999	00000154	1	960	$970.00	06/25/1999	OP
06/29/1999	00000155	1	966	$126.00	06/25/1999	OP
06/29/1999	00000156	1	964	$312.00	06/25/1999	OP
06/29/1999	00000157	1	581	$40.00	06/25/1999	OP
07/16/1999	00000009	1	960	-$970.00	06/25/1999	OP
07/16/1999	00000010	1	970	$840.00	06/25/1999	OP
07/16/1999	00000011	4	704	-$130.00	07/16/1999	OP
02/20/2001	00000090	1	117	$890.00	02/15/2001	DA 024800
02/20/2001	00000092	1	102	$320.00	02/15/2001	DA 024800
02/20/2001	00000093	1	103	$126.00	02/15/2001	DA 024800
02/20/2001	00000094	1	131	$710.00	02/15/2001	DA 024800

ILE 'HOME' ENTERED AT 13:26:31 ON 22 MAR 2001

=> file caplus biosis agricola uspatfull wpids

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.15	0.15

FILE 'CAPLUS' ENTERED AT 13:26:55 ON 22 MAR 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE 'BIOSIS' ENTERED AT 13:26:55 ON 22 MAR 2001
COPYRIGHT (C) 2001 BIOSIS(R)

FILE 'AGRICOLA' ENTERED AT 13:26:55 ON 22 MAR 2001

FILE 'USPATFULL' ENTERED AT 13:26:55 ON 22 MAR 2001
CA INDEXING COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'WPIDS' ENTERED AT 13:26:55 ON 22 MAR 2001
COPYRIGHT (C) 2001 DERWENT INFORMATION LTD

=> s mortierella (3a)(alpina or exigua or elongata or hygrophila)

L1 530 MORTIERELLA (3A)(ALPINA OR EXIGUA OR ELONGATA OR HYGROPHILA)

=> s phosphate (p) potassium (p) sodium (P) magnesium

L2 9344 PHOSPHATE (P) POTASSIUM (P) SODIUM (P) MAGNESIUM

=> s l1 and l2

L3 3 L1 AND L2

=> dup rem l3

PROCESSING COMPLETED FOR L3
L4 3 DUP REM L3 (0 DUPLICATES REMOVED)

=> d ab bib tot

L4 ANSWER 1 OF 3 USPATFULL
AB The present invention discloses a process for producing lipid containing omega-9 highly unsaturated fatty acid by culturing in a medium a mutant strain obtained by mutation on a microorganism having the ability to produce arachidonic acid belonging to the genus Mortierella and so forth, in which .DELTA.12 desaturation activity is decreased or lost, but at least one of .DELTA.5 desaturation activity, .DELTA.6 desaturation activity and chain length elongation activity is elevated. Moreover, the present invention also discloses a process for producing omega-9 highly unsaturated fatty acid by collecting omega-9 highly unsaturated fatty acid from the culture or lipid described above.
AN 2000:157198 USPATFULL
TI Process for producing omega-9 highly unsaturated fatty acid and lipid containing the same
IN Akimoto, Kengo, Osaka, Japan

Kawashima, Hi[redacted]hi, Takatsuki, Japan
Shimizu, Saka[redacted] Kyoto, Japan
PA Suntory Limited, Osaka, Japan (non-U.S. corporation)
PI US 6150144 20001121
AI US 1997-917230 19970825 (8)
PRAI JP 1996-222612 19960823
DT Utility
EXNAM Primary Examiner: Siegel, Alan
LREP Burns, Doane, Swecker & Mathis, L.L.P.
CLMN Number of Claims: 13
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 590
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2001 ACS
AB A method for controlling the mycol. morphol. of microorganisms belonging to the genus Mortierella by using media for culturing microorganisms which contain 5 to 60 mM of **phosphate** ion, 5 to 60 mM of **potassium** ion, 2 to 50 mM of **sodium** ion, 0.5 to 9 mM of **magnesium** ion and 0.5 to 12 mM of calcium ion; a process for producing unsatd. fatty acids or lipids contg. the same characterized by culturing microorganisms belonging to the genus Mortierella in media contg. 5 to 60 mM of **phosphate** ion, 5 to 60 mM of **potassium** ion, 2 to 50 mM of **sodium** ion, 0.5 to 9 mM of **magnesium** ion and 0.5 to 12 mM of calcium ion; and media for culturing microorganisms characterized by contg. 5 to 60 mM of **phosphate** ion, 5 to 60 mM of **potassium** ion, 2 to 50 mM of **sodium** ion, 0.5 to 9 mM of **magnesium** ion and 0.5 to 12 mM of calcium ion were given.
AN 1998:485185 CAPLUS
DN 129:108087
TI Media for culturing microorganisms and process for producing unsaturated fatty acids or lipids containing the same
IN Higashiyama, Kenichi; Yaguchi, Toshiaki; Akimoto, Kengo; Shimizu, Sakayu
PA Suntory Ltd., Japan
SO PCT Int. Appl., 32 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9829558	A1	19980709	WO 1997-JP4898	19971226
W: AU, CA, JP, KR, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9853414	A1	19980731	AU 1998-53414	19971226
EP 960943	A1	19991201	EP 1997-950433	19971226
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRAI JP 1996-349541	19961227			
WO 1997-JP4898	19971226			

L4 ANSWER 3 OF 3 USPATFULL
AB Mixtures of saturated or unsaturated C.sub.2 -C.sub.5 hydrocarbons are produced by aerobically cultivating a microorganism belonging to a wide variety of genera Fungi, Yeasts, Bacteria and Actinomycetes in a water-containing medium, and recovering the hydrocarbon mixtures from the liquid phase or/and gaseous ambience of the medium. Industrial wastes and various biomass can be employed as nutrient sources in the cultivation.
AN 87:69951 USPATFULL
TI Method for producing hydrocarbon mixtures
IN Fukuda, Hideo, Osaka, Japan

Ogawa, Takahira, Kumamoto, Japan
Fujii, Takao, Kumamoto, Japan
PA Hideo Fukuda, Osaka, Japan (non-U.S. corporation)
PI US 4698304 19871006
AI US 1985-785479 19851008 (6)
PRAI JP 1984-211972 19841009
DT Utility
EXNAM Primary Examiner: Tarcza, John E.
LREP Burgess, Ryan and Wayne
CLMN Number of Claims: 6
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 656
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> s arachidonic or linolenic or eicosapentaenoic or eicosatrienoic

L5 98566 ARACHIDONIC OR LINOLENIC OR EICOSAPENTAENOIC OR EICOSATRIENOIC

=> d his

(FILE 'HOME' ENTERED AT 13:26:31 ON 22 MAR 2001)

FILE 'CAPLUS, BIOSIS, AGRICOLA, USPATFULL, WPIDS' ENTERED AT 13:26:55 ON 22 MAR 2001
L1 530 S MORTIERELLA (3A)(ALPINA OR EXIGUA OR ELONGATA OR HYGROPHILA)
L2 9344 S PHOSPHATE (P) POTASSIUM (P) SODIUM (P) MAGNESIUM
L3 3 S L1 AND L2
L4 3 DUP REM L3 (0 DUPLICATES REMOVED)
L5 98566 S ARACHIDONIC OR LINOLENIC OR EICOSAPENTAENOIC OR EICOSATRIENOI

=> s l1 and l5

L6 355 L1 AND L5

=> s phosphate (l) potassium (l) sodium (lP) magnesium

MISSING OPERATOR 'SODIUM (LP'
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.

=> s phosphate (l) potassium (l) sodium (l) magnesium

L7 42987 PHOSPHATE (L) POTASSIUM (L) SODIUM (L) MAGNESIUM

=> s l6 and l7

L8 3 L6 AND L7

=> s l3 not l8

L9 1 L3 NOT L8

=> d

L9 ANSWER 1 OF 1 USPATFULL
AN 87:69951 USPATFULL
TI Method for producing hydrocarbon mixtures
IN Fukuda, Hideo, Osaka, Japan
Ogawa, Takahira, Kumamoto, Japan
Fujii, Takao, Kumamoto, Japan
PA Hideo Fukuda, Osaka, Japan (non-U.S. corporation)

PI US 4698304 19[redacted]006
AI US 1985-785479 19851008 (6)
PRAI JP 1984-211972 19841009
DT Utility
LN.CNT 656
INCL INCLM: 435/166.000
INCLS: 435/167.000; 435/807.000
NCL NCLM: 435/166.000
NCLS: 435/167.000; 435/807.000
IC [4]
ICM: C12P005-00
ICS: C12P005-02
EXF 435/166; 435/167; 435/807
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d kwic

L9 ANSWER 1 OF 1 USPATFULL
SUMM . . . japonicus IFO-4758, IFO-4780, IFO-5318, IFO-5319, Rhizopus niveus IFO-4759, Rhizopus oryzae IFO-4705, Rhizopus stolonifer IFO-5411,
Absidia cylindrospora IFO-4000, Mortierella isabellina IFO-8183, **Mortierella elongata** IFO-8570, Cunninghamella elegans IFO-4441, Taphrina Caerulescens IFO-9242, Taphrina wiesneri IFO-7776, Monascus anka IFO-6540, Monascus albidus IFO-4489, Nectria flammea IFO-9628, Gibberella. . .
SUMM . . . 20 20

Polypeptone	5	--	5	--	5	5
Meat extract	3	--	3	--	3	--
Ammonium sulfate	--	3.0	--	5.0	--	2
Potassium primary **phosphate**	--	--	--	1.0	--	--
Potassium secondary **phosphate**	--	1.0	--	--	--	--
Magnesium sulfate (7H.sub.2 O)	--	0.5	--	0.5	--	--
Ferrous sulfate (7H.sub.2 O)	--	0.01	--	--	--	--
Zinc sulfate (7H.sub.2 O)	--	0.22	--	--	--	--
Calcium chloride (2H.sub.2 O)	--	0.1	--	0.1	--	--
Calcium carbonate	--	--	--	3.0	--	--
Potassium chloride	--	0.25	--	--	--	--
Sodium chloride	2	0.1	2	0.1	2	2
Solution of inorganic	--	--	--	10 ml	--	--

salts
Mixed -- -- [redacted] -- 10 ml --. . .

=> logoff

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	45.86	46.01

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.59	-0.59

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 13:33:51 ON 22 MAR 2001